Release notes for ENDF/B Development n-042_Mo_092 evaluation



April 26, 2017

• checkr Warnings:

1. A previous error halted parsing of the current section MAT=4225, MF=1, MT=451 (1): Parsing stopped

ERROR(S) FOUND IN MAT=4225, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 359 TO 433

2. Generic warning message MAT=4225, MF= 3, MT=111 (1): Warning

ERROR(S) FOUND IN MAT=4225, MF= 3, MT=111 WARNING(S) IN MAT=4225, MF= 3, MT=203

3. Generic warning message MAT=4225, MF=3, MT=203 (1): Warning

ERROR(S) FOUND IN MAT=4225, MF= 3, MT=203 WARNING(S) IN MAT=4225, MF= 3, MT=204

4. Generic warning message MAT=4225, MF=3, MT=204 (1): Warning

ERROR(S) FOUND IN MAT=4225, MF= 3, MT=204 WARNING(S) IN MAT=4225, MF= 3, MT=205

5. Generic warning message MAT=4225, MF= 3, MT=205 (1): Warning

ERROR(S) FOUND IN MAT=4225, MF= 3, MT=205 WARNING(S) IN MAT=4225, MF= 3, MT=206

6. Generic warning message MAT=4225, MF= 3, MT=206 (1): Warning

ERROR(S) FOUND IN MAT=4225, MF= 3, MT=206 WARNING(S) IN MAT=4225, MF= 3, MT=207

7. Generic warning message MAT=4225, MF=6, MT=91 (1): Warning

ERROR(S) FOUND IN MAT=4225, MF= 6, MT= 91 WARNING(S) IN MAT=4225, MF= 6, MT=203

8. Generic warning message MAT=4225, MF=6, MT=203 (1): Warning

ERROR(S) FOUND IN MAT=4225, MF= 6, MT=203 WARNING(S) IN MAT=4225, MF= 6, MT=204

9. Generic warning message MAT=4225, MF= 6, MT=204 (1): Warning

ERROR(S) FOUND IN MAT=4225, MF= 6, MT=204 WARNING(S) IN MAT=4225, MF= 6, MT=205 10. Generic warning message MAT=4225, MF=6, MT=205 (1): Warning

ERROR(S) FOUND IN MAT=4225, MF= 6, MT=205 WARNING(S) IN MAT=4225, MF= 6, MT=206

11. Generic warning message MAT=4225, MF=6, MT=206 (1): Warning

ERROR(S) FOUND IN MAT=4225, MF= 6, MT=206 WARNING(S) IN MAT=4225, MF= 6, MT=207

- checkr Errors:
 - 1. A variable is outside the allowed ENDF range MAT=4225, MF=1, MT=451 (0): Variable range

ERROR(S) FOUND IN MAT=4225, MF= 1, MT=451
MOD = 1 OUT OF RANGE 0 - 0 RECORD NUMBER 359

2. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=2, MT=151 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY RECORD NUMBER 435

3. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=3, MT=1 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY RECORD NUMBER 553

4. Missing a section in directory so your directory is messed up. This error will

4. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=3, MT=2 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY RECORD NUMBER 720

5. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=3, MT=4 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY RECORD NUMBER 887

6. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=3, MT=16 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY RECORD NUMBER 908

7. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 4225, MF = 3, MT = 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT= 22 SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER

8. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4225, MF = 3, MT = 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT= 28 SECTION 3/ 28 NOT IN DIRECTORY

RECORD NUMBER 924

9. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 4225, MF = 3, MT = 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT= 51

SECTION 3/51 NOT IN DIRECTORY

RECORD NUMBER 933

10. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4225, MF = 3, MT = 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT= 52 SECTION 3/52 NOT IN DIRECTORY

RECORD NUMBER

11. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 4225, MF = 3, MT = 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT= 53 SECTION 3/53 NOT IN DIRECTORY

RECORD NUMBER

12. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4225, MF = 3, MT = 54 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT= 54 SECTION 3/54 NOT IN DIRECTORY

RECORD NUMBER 977

13. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 4225, MF = 3, MT = 55 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT= 55 SECTION 3/55 NOT IN DIRECTORY

RECORD NUMBER 992

14. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 4225, MF = 3, MT = 56 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT= 56 SECTION 3/56 NOT IN DIRECTORY

15. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=3, MT=57 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT= 57
SECTION 3/ 57 NOT IN DIRECTORY RECORD NUMBER

16. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4225, MF = 3, MT = 58 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT= 58 SECTION 3/ 58 NOT IN DIRECTORY

RECORD NUMBER 1034

1020

17. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4225, MF = 3, MT = 59 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT= 59 SECTION 3/ 59 NOT IN DIRECTORY

RECORD NUMBER 1047

18. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4225, MF = 3, MT = 60 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT= 60 SECTION 3/ 60 NOT IN DIRECTORY

RECORD NUMBER 1060

19. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=3, MT=61 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT= 61 SECTION 3/ 61 NOT IN DIRECTORY

RECORD NUMBER 1073

20. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4225, MF = 3, MT = 62 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT= 62 SECTION 3/ 62 NOT IN DIRECTORY

RECORD NUMBER 1085

21. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4225, MF = 3, MT = 63 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT= 63 SECTION 3/ 63 NOT IN DIRECTORY

RECORD NUMBER 1097

22. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4225, MF= 3, MT= 64 (0): Directory (b)

MAI = 4225, MI = 5, MI = 04 (0). Directory

ERROR(S) FOUND IN MAT=4225, MF= 3, MT= 64 SECTION 3/ 64 NOT IN DIRECTORY

23. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=3, MT=65 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT= 65
SECTION 3/ 65 NOT IN DIRECTORY RECORD NUMBER

24. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=3, MT=66 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT= 66 SECTION 3/ 66 NOT IN DIRECTORY

RECORD NUMBER 1130

25. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4225, MF = 3, MT = 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT= 91 SECTION 3/ 91 NOT IN DIRECTORY

RECORD NUMBER 1141

26. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=3, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT=102 SECTION 3/102 NOT IN DIRECTORY

RECORD NUMBER 1151

27. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=3, MT=103 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT=103 SECTION 3/103 NOT IN DIRECTORY

RECORD NUMBER 1171

28. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=3, MT=104 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT=104 SECTION 3/104 NOT IN DIRECTORY

RECORD NUMBER 1186

29. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=3, MT=105 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT=105 SECTION 3/105 NOT IN DIRECTORY

RECORD NUMBER 1198

30. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4225, MF= 3, MT=106 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT=106 SECTION 3/106 NOT IN DIRECTORY

31. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=3, MT=107 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT=107 SECTION 3/107 NOT IN DIRECTORY

RECORD NUMBER 1220

32. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=3, MT=111 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT=111 SECTION 3/111 NOT IN DIRECTORY

RECORD NUMBER 1235

33. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=3, MT=203 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT=203 SECTION 3/203 NOT IN DIRECTORY

RECORD NUMBER 1247

34. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=3, MT=204 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT=204 SECTION 3/204 NOT IN DIRECTORY

RECORD NUMBER 1313

35. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=3, MT=205 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT=205 SECTION 3/205 NOT IN DIRECTORY

RECORD NUMBER 1325

36. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=3, MT=206 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT=206 SECTION 3/206 NOT IN DIRECTORY

RECORD NUMBER 1334

37. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=3, MT=207 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 3, MT=207 SECTION 3/207 NOT IN DIRECTORY

RECORD NUMBER 1347

38. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=4, MT=2 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 4, MT= 2 SECTION 4/ 2 NOT IN DIRECTORY

39. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=4, MT=51 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 4, MT= 51
SECTION 4/ 51 NOT IN DIRECTORY RECORD NUMBER

40. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=4, MT=52 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 4, MT= 52 SECTION 4/ 52 NOT IN DIRECTORY

RECORD NUMBER 1640

41. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=4, MT=53 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 4, MT= 53 SECTION 4/ 53 NOT IN DIRECTORY

RECORD NUMBER 1669

42. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=4, MT=54 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 4, MT= 54 SECTION 4/ 54 NOT IN DIRECTORY

RECORD NUMBER 1698

43. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=4, MT=55 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 4, MT= 55 SECTION 4/ 55 NOT IN DIRECTORY

RECORD NUMBER 1727

44. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=4, MT=56 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 4, MT= 56 SECTION 4/ 56 NOT IN DIRECTORY

RECORD NUMBER 1756

45. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=4, MT=57 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 4, MT= 57 SECTION 4/ 57 NOT IN DIRECTORY

RECORD NUMBER 1785

46. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=4, MT=58 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 4, MT= 58 SECTION 4/ 58 NOT IN DIRECTORY

47. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=4, MT=59 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 4, MT= 59
SECTION 4/ 59 NOT IN DIRECTORY RECORD NUMBER

48. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=4, MT=60 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 4, MT= 60 SECTION 4/ 60 NOT IN DIRECTORY

RECORD NUMBER 1912

49. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=4, MT=61 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 4, MT= 61 SECTION 4/ 61 NOT IN DIRECTORY

RECORD NUMBER 1984

50. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=4, MT=62 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 4, MT= 62 SECTION 4/ 62 NOT IN DIRECTORY

RECORD NUMBER 2013

51. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=4, MT=63 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 4, MT= 63 SECTION 4/ 63 NOT IN DIRECTORY

RECORD NUMBER 2042

52. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=4, MT=64 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 4, MT= 64 SECTION 4/ 64 NOT IN DIRECTORY

RECORD NUMBER 2071

53. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=4, MT=65 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 4, MT= 65 SECTION 4/ 65 NOT IN DIRECTORY

RECORD NUMBER 2100

54. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=4, MT=66 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 4, MT= 66 SECTION 4/ 66 NOT IN DIRECTORY

55. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=6, MT=16 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 6, MT= 16
SECTION 6/ 16 NOT IN DIRECTORY RECORD NUMBER 21

56. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4225, MF = 6, MT = 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 6, MT= 22 SECTION 6/ 22 NOT IN DIRECTORY

RECORD NUMBER 2485

57. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4225, MF = 6, MT = 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 6, MT= 28 SECTION 6/ 28 NOT IN DIRECTORY

RECORD NUMBER 3052

58. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=6, MT=91 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 6, MT= 91 SECTION 6/ 91 NOT IN DIRECTORY

RECORD NUMBER 3640

59. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=6, MT=203 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 6, MT=203 SECTION 6/203 NOT IN DIRECTORY

RECORD NUMBER 4555

60. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4225, MF= 6, MT=204 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 6, MT=204 SECTION 6/204 NOT IN DIRECTORY

RECORD NUMBER 5076

61. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=6, MT=205 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 6, MT=205 SECTION 6/205 NOT IN DIRECTORY

RECORD NUMBER 5317

62. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4225, MF= 6, MT=206 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 6, MT=206 SECTION 6/206 NOT IN DIRECTORY

63. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=6, MT=207 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF= 6, MT=207 SECTION 6/207 NOT IN DIRECTORY

RECORD NUMBER 5611

64. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=4225,\ MF=12,\ MT=102\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=4225, MF=12, MT=102 SECTION 12/102 NOT IN DIRECTORY

RECORD NUMBER 6158

65. Missing a gamma spectrum for continuum of gammas MAT=4225, MF=12, MT=102 (1): No gamma spectrum

ERROR(S) FOUND IN MAT=4225, MF=12, MT=102 CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

66. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=13, MT=3 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF=13, MT= 3 SECTION 13/ 3 NOT IN DIRECTORY

RECORD NUMBER 6167

67. Missing a gamma spectrum for continuum of gammas MAT=4225, MF=13, MT=3 (1): No gamma spectrum

ERROR(S) FOUND IN MAT=4225, MF=13, MT= 3
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

68. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=4225,\ MF=14,\ MT=\ 3\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=4225, MF=14, MT= 3 SECTION 14/ 3 NOT IN DIRECTORY

RECORD NUMBER 6179

69. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=14, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF=14, MT=102 SECTION 14/102 NOT IN DIRECTORY

RECORD NUMBER 6181

70. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4225, MF=15, MT=3 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF=15, MT= 3 SECTION 15/ 3 NOT IN DIRECTORY

RECORD NUMBER 6184

71. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=4225,\ MF=15,\ MT=102\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=4225, MF=15, MT=102 SECTION 15/102 NOT IN DIRECTORY

RECORD NUMBER 6632

72. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4225, MF = 33, MT = 1 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF=33, MT= 1 SECTION 33/ 1 NOT IN DIRECTORY

RECORD NUMBER 6787

73. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4225, MF = 33, MT = 2 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF=33, MT= 2 SECTION 33/ 2 NOT IN DIRECTORY

RECORD NUMBER 7007

74. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4225, MF = 33, MT = 4 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF=33, MT= 4 SECTION 33/ 4 NOT IN DIRECTORY

RECORD NUMBER 7227

75. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 4225, MF = 33, MT = 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF=33, MT= 16 SECTION 33/ 16 NOT IN DIRECTORY

RECORD NUMBER 7294

76. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 4225, MF = 33, MT = 102 (0): Directory (b)

ERROR(S) FOUND IN MAT=4225, MF=33, MT=102 SECTION 33/102 NOT IN DIRECTORY

RECORD NUMBER 7308

- psyche Warnings:
 - 1. Gamma width not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ISOTOPE MASS = 92. L = 1 / AT RESONANCE ENERGY 2.62200E+04 EV. THE GAMMA WIDTH 1.58000E+00 DEVIATES TOO MUCH FROM THE AVERAGE 2.79045E-01 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 92. L = 1

AT RESONANCE ENERGY 2.62200E+04 EV. THE GAMMA WIDTH 1.58000E+00 DEVIATES TOO MUCH FROM THE AV

 $2.\,$ Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 4.87000E-04 / ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 4.87000E-04 / ENERGY = 4.00000E+04DENSITY 1.31741E+03 SHOULD BE 1.12473E+03 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 4.87000E-04 ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 4.87000E-04 DENSITY 1.31741E+03 SHOULD BE 1.12473E+03

3. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 4.87000E-04 / DENSITY 1.30450E+03 SHOULD BE 1.11371E+03 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 4.87000E-04 DENSITY 1.30450E+03 SHOULD BE 1.11371E+03

4. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 6.00000E+04. STRENGTH FUNCTION IS 4.87000E-04 / DENSITY 1.29172E+03 SHOULD BE 1.10280E+03 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 6.00000E+04. STRENGTH FUNCTION IS 4.87000E-04 DENSITY 1.29172E+03 SHOULD BE 1.10280E+03

5. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 4.87000E-04 / DENSITY 1.27907E+03 SHOULD BE 1.09201E+03 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 4.87000E-04 DENSITY 1.27907E+03 SHOULD BE 1.09201E+03

6. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 8.00000E+04. STRENGTH FUNCTION IS 4.87000E-04 / DENSITY 1.26656E+03 SHOULD BE 1.08132E+03 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 8.00000E+04. STRENGTH FUNCTION IS 4.87000E-04 DENSITY 1.26656E+03 SHOULD BE 1.08132E+03

7. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 9.00000E+04. STRENGTH FUNCTION IS 4.87000E-04 / DENSITY 1.25418E+03 SHOULD BE 1.07075E+03 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 9.00000E+04. STRENGTH FUNCTION IS 4.87000E-04 DENSITY 1.25418E+03 SHOULD BE 1.07075E+03

8. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 4.87000E-04 / DENSITY 1.24192E+03 SHOULD BE 1.06028E+03 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 4.87000E-04 DENSITY 1.24192E+03 SHOULD BE 1.06028E+03

9. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 1.00000E+04 / ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 1.00000E+04 / DENSITY 1.14309E+03 SHOULD BE 8.78274E+02 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 1.00000E-04 ENERGY = 4.00000E+04. STRENGTH FUNCTION IS 1.00000E-04 DENSITY 1.14309E+03 SHOULD BE 8.78274E+02

10. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 1.00000E-04 / DENSITY 1.13189E+03 SHOULD BE 8.69665E+02 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 5.00000E+04. STRENGTH FUNCTION IS 1.00000E-04 DENSITY 1.13189E+03 SHOULD BE 8.69665E+02

11. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 6.00000E+04. STRENGTH FUNCTION IS 1.00000E-04 / DENSITY 1.12080E+03 SHOULD BE 8.61147E+02 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 6.00000E+04. STRENGTH FUNCTION IS 1.00000E-04 DENSITY 1.12080E+03 SHOULD BE 8.61147E+02

12. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 1.00000E-04 / DENSITY 1.10983E+03 SHOULD BE 8.52716E+02 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 7.00000E+04. STRENGTH FUNCTION IS 1.00000E-04 DENSITY 1.10983E+03 SHOULD BE 8.52716E+02

13. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 8.00000E+04. STRENGTH FUNCTION IS 1.00000E-04 / DENSITY 1.09897E+03 SHOULD BE 8.44374E+02 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 8.00000E+04. STRENGTH FUNCTION IS 1.00000E-04

DENSITY 1.09897E+03 SHOULD BE 8.44374E+02

14. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 9.00000E+04. STRENGTH FUNCTION IS 1.00000E-04 / DENSITY 1.08823E+03 SHOULD BE 8.36117E+02 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 9.00000E+04. STRENGTH FUNCTION IS 1.00000E-04 DENSITY 1.08823E+03 SHOULD BE 8.36117E+02

15. Level density in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 1.00000E-04 / DENSITY 1.07759E+03 SHOULD BE 8.27945E+02 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 1.00000E-04 DENSITY 1.07759E+03 SHOULD BE 8.27945E+02

16. Non-threshold reaction with Q value differing from PSYCHE's expectations FILE 3 / SECTION 103 / THE CALCULATED Q 3.60970E+05 DISSAGREES WITH THE GIVEN Q 4.23561E+05 (0): Iffy Q

FILE 3

SECTION 103

THE CALCULATED Q 3.60970E+05 DISSAGREES WITH THE GIVEN Q 4.23561E+05

17. Non-threshold reaction with Q value differing from PSYCHE's expectations FILE 3 / SECTION 107 / THE CALCULATED Q 3.99992E+06 DISSAGREES WITH THE GIVEN Q 3.70670E+06 (0): Iffy Q

FILE 3

SECTION 107

THE CALCULATED Q 3.99992E+06 DISSAGREES WITH THE GIVEN Q 3.70670E+06

18. Non-threshold reaction with Q value differing from PSYCHE's expectations FILE 3 / SECTION 203 / THE CALCULATED Q 3.60970E+05 DISSAGREES WITH THE GIVEN Q 4.23561E+05 (0): Iffy Q

FILE 3

SECTION 203

THE CALCULATED Q 3.60970E+05 DISSAGREES WITH THE GIVEN Q 4.23561E+05

19. Non-threshold reaction with Q value differing from PSYCHE's expectations FILE 3 / SECTION 207 / THE CALCULATED Q 3.99992E+06 DISSAGREES WITH THE GIVEN Q 3.70670E+06 (0): Iffy Q

FILE 3

SECTION 207

THE CALCULATED Q 3.99992E+06 DISSAGREES WITH THE GIVEN Q 3.70670E+06

- groupie Errors:
 - 1. Very small elastic cross section found 0: Small elastic

Multi-Group and Multi-Band Parameters from ENDF/B Data (GROUPIE 2015-2)

 ${\tt ENDF/B}$ Input and Output Data Filenames ${\tt ENDFB.IN}$

ENDFB.OUT

... [97 more lines]

• fudge-4.0 Warnings:

1. Missing a channel with a particular angular momenta combination resonances / resolved / MultiLevel_BreitWigner (Error # 0): missingResonanceChannel

```
WARNING: Missing a channel with angular momenta combination L=0, J=1.5 and S=1.5 for "capture" WARNING: Missing a channel with angular momenta combination L=1, J=0.5 and S=1.5 for "capture" WARNING: Missing a channel with angular momenta combination L=1, J=1.5 and S=1.5 for "capture" WARNING: Missing a channel with angular momenta combination L=1, J=2.5 and S=1.5 for "capture"
```

2. Unnormalized outgoing probability distribution reaction label 17: $n + Mo92_c / Product$: n / Distribution: / energyAngular - XYs3d: (Error # 0): $Bad\ norm$

```
WARNING: Unnormalized distribution! At energy_in = 3728480. eV (index 0), integral = 0.5
WARNING: Unnormalized distribution! At energy_in = 4028480. eV (index 1), integral = 0.664468189543
WARNING: Unnormalized distribution! At energy_in = 5.e6 eV (index 2), integral = 0.89786588067
WARNING: Unnormalized distribution! At energy_in = 6.e6 eV (index 3), integral = 0.922745720955
... plus 14 more instances of this message
```

3. Unnormalized outgoing probability distribution reaction label 18: n[multiplicity:'2'] + Mo91 / Product: n / Distribution: / energyAngular - XYs3d: (Error # 0): Bad norm

```
WARNING: Unnormalized distribution! At energy_in = 1.28314e7 eV (index 0), integral = 0.5
WARNING: Unnormalized distribution! At energy_in = 1.31314e7 eV (index 1), integral = 0.664468189543
WARNING: Unnormalized distribution! At energy_in = 1.4e7 eV (index 2), integral = 0.891949630155
WARNING: Unnormalized distribution! At energy_in = 1.5e7 eV (index 3), integral = 0.916423928677
... plus 5 more instances of this message
```

4. Unnormalized outgoing probability distribution reaction label 19: n + H1 + Nb91 / Product: n / Distribution: / energyAngular - XYs3d: (Error # 0): Bad norm

```
WARNING: Unnormalized distribution! At energy_in = 7547550. eV (index 0), integral = 0.5
WARNING: Unnormalized distribution! At energy_in = 7847550. eV (index 1), integral = 0.885803864887
WARNING: Unnormalized distribution! At energy_in = 9.e6 eV (index 2), integral = 0.885804365468
WARNING: Unnormalized distribution! At energy_in = 1.e7 eV (index 3), integral = 0.919853742125
... plus 10 more instances of this message
```

5. Unnormalized outgoing probability distribution reaction label 21: n + He4 + Zr88 / Product: n / Distribution: / energyAngular - XYs3d: (Error # 0): Bad norm

```
WARNING: Unnormalized distribution! At energy_in = 5685060. eV (index 0), integral = 0.5
WARNING: Unnormalized distribution! At energy_in = 5985060. eV (index 1), integral = 0.68998589116
WARNING: Unnormalized distribution! At energy_in = 9.e6 eV (index 2), integral = 0.689985271211
WARNING: Unnormalized distribution! At energy_in = 1.e7 eV (index 3), integral = 0.698338869691
... plus 10 more instances of this message
```

6. For distributions, flat interpolation along incident energy is unphysical! production label 28: /reactionSuite/reactions/production[@label='28'] / Product: gamma / Distribution: / uncorrelated - energy - XYs2d: (Error # 0): flatIncidentEnergyInterpolation

WARNING: For distributions, flat interpolation along incident energy is unphysical!

7. Cross section does not match sum of linked reaction cross sections crossSectionSum label 1: nonelastic (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.40%

8. Cross section does not match sum of linked reaction cross sections $crossSectionSum\ label\ 2:\ (z,n)\ (Error\ \#\ 0):\ CS\ Sum.$

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 1.03%

9. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 0 (total): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

10. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 0 (total): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

11. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 1 (n + Mo92): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

12. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 1 (n + Mo92): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

13. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes. Section 2 ((z,n)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

14. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 3 (n[multiplicity:'2'] + Mo91): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

15. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 4 (Mo93 + gamma): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

16. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 4 (Mo93 + gamma): / Form 'eval': / Component 1 (Error # 0): Condition num.

- fudge-4.0 Errors:
 - 1. Calculated and tabulated Q values disagree.

 reaction label 18: n[multiplicity:'2'] + Mo91 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -12660292.15335083 eV vs -1.26921e7 eV!

2. Calculated and tabulated Q values disagree. reaction label 19: n + H1 + Nb91 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7449668.458389282 eV vs -7465610. eV!

3. Calculated and tabulated Q values disagree. reaction label 20: Mo93 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 8081672.808074951 eV vs 8067390. eV!

4. Calculated and tabulated Q values disagree. reaction label 21: n + He4 + Zr88 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -5594954.90057373 eV vs -5623330. eV!

5. Calculated and tabulated Q values disagree.

reaction label 22: H1[multiplicity:'2'] + Zr91 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -5409361.465026855 eV vs -5425680. eV!

6. Calculated and tabulated Q values disagree.

reaction label 23: H1 + Nb92_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 437543.8301391602 eV vs 423561. eV!

7. Calculated and tabulated Q values disagree. reaction label 24: H2 + Nb91-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -5225102.357452393 eV vs -5153620. eV!

8. Calculated and tabulated Q values disagree. reaction label 25: H3 + Nb90-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -11015364.19827271 eV vs -1.10275e7 eV!

9. Calculated and tabulated Q values disagree. reaction label 26: $He3 + Zr90_s$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -4885772.387207031 eV vs -4898240. eV!

10. Calculated and tabulated Q values disagree. reaction label 27: He4 + Zr89_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 3722146.393310547 eV vs 3.7067e6 eV!

• njoy2012 Warnings:

- 1. Recoil is not given, so one-particle recoil approximation used. $heatr...prompt\ kerma\ (0):\ HEATR/hinit\ (4)$
 - ---message from hinit---mf6, mt 16 does not give recoil za= 42091 one-particle recoil approx. used.
- 2. Recoil is not given, so one-particle recoil approximation used. $heatr...prompt\ kerma\ (1):\ HEATR/hinit\ (4)$
 - ---message from hinit---mf6, mt 22 does not give recoil za= 42092 one-particle recoil approx. used.
- 3. Recoil is not given, so one-particle recoil approximation used. heatr...prompt kerma (2): HEATR/hinit (4)
 - ---message from hinit---mf6, mt 28 does not give recoil za= 42092 one-particle recoil approx. used.
- 4. Recoil is not given, so one-particle recoil approximation used. heatr...prompt kerma (3): HEATR/hinit (4)
 - ---message from hinit---mf6, mt 91 does not give recoil za= 42092 one-particle recoil approx. used.
- 5. Recoil is not given, so one-particle recoil approximation used. heatr...prompt kerma (4): HEATR/hinit (4)
 - ---message from hinit---mf6, mt203 does not give recoil za= 41092 one-particle recoil approx. used.
- 6. Recoil is not given, so one-particle recoil approximation used. $heatr...prompt\ kerma\ (5):\ HEATR/hinit\ (4)$
 - ---message from hinit---mf6, mt204 does not give recoil za= 41091 one-particle recoil approx. used.
- 7. Recoil is not given, so one-particle recoil approximation used. heatr...prompt kerma (6): HEATR/hinit (4)
 - ---message from hinit---mf6, mt205 does not give recoil za= 41090 one-particle recoil approx. used.
- 8. Recoil is not given, so one-particle recoil approximation used. heatr...prompt kerma (7): HEATR/hinit (4)
 - ---message from hinit---mf6, mt206 does not give recoil za= 40090 one-particle recoil approx. used.
- 9. Recoil is not given, so one-particle recoil approximation used. heatr...prompt kerma (8): HEATR/hinit (4)
 - ---message from hinit---mf6, mt207 does not give recoil za= 40089 one-particle recoil approx. used.